

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listing, of claims in the application:

**Listing of Claims:**

Claim 1 (currently amended): A relay, comprising:

- a) a first circuit;
- b) a second circuit;
- c) a ground;
- d) an electro-magnetic actuator assembly; and
- e) an armature assembly which is movable between first and second positions with respect to the first and second circuits, wherein:
  - i) armature assembly movement is controlled by the electro-magnetic actuator assembly;
  - ii) movement of the armature assembly to its first position allows current to flow through the first circuit; and
  - iii) movement of the armature assembly to its second position couples the first circuit to the ground and allows current to flow through the second circuit; and
- f) at least one biased conductor, wherein the at least one biased conductor is biased not to couple the first circuit to the ground, and wherein movement of the armature assembly to its second position causes the at least one biased conductor to couple the first circuit to the ground.

Claim 2 (cancelled)

Claim 3 (currently amended): A relay as in claim ~~[[2]]~~1, wherein:

- a) the armature assembly comprises at least one actuator arm; and
- b) the at least one actuator arm presses on the at least one biased conductor and causes the at least one biased conductor to couple the first circuit to the ground as the armature assembly moves to its second position.

Claim 4 (currently amended): A relay as in claim ~~[[2]]~~1, wherein:

- a) the at least one biased conductor is ~~coupled~~ fixed to the ground; and
- b) the at least one biased conductor is biased not to contact the first circuit.

Claim 5 (currently amended): A relay as in claim ~~[[4]]~~3, wherein the at least one actuator arm presses on the at least one biased conductor and moves the at least one biased conductor into contact with the first circuit as the armature assembly moves to its second position.

Claim 6 (currently amended): A relay as in claim ~~[[2]]~~1, wherein one or more of the at least one biased conductor comprises a leaf spring.

Claim 7.(original): A relay as in claim 1, wherein the first circuit is a pass-through circuit.

Claim 8 (original): A relay as in claim 7, wherein the first circuit comprises a stripline.

Claim 9 (original): A relay as in claim 7, wherein the second circuit is an attenuator circuit.

Claim 10 (original): A relay as in claim 1, wherein the electrical length of the first circuit is substantially matched to the electrical length of the second circuit.

Claims 11 - 12 (cancelled)

Claim 13 (currently amended): A relay, ~~as in claim 1, further~~ comprising:

- a) a first circuit;
- b) a second circuit;
- c) a ground;
- d) an electro-magnetic actuator assembly; and
- e) an armature assembly which is movable between first and second positions with respect to the first and second circuits, wherein:
  - i) armature assembly movement is controlled by the electro-magnetic actuator assembly;
  - ii) movement of the armature assembly to its first position allows current to flow through the first circuit; and
  - iii) movement of the armature assembly to its second position couples the first circuit to the ground and allows current to flow through the second circuit; and
- f) a substrate on which the first and second circuits are mounted, wherein at least a portion of the ground presents on the substrate to form a dividing line between the first and second circuits.

Claim 14 (currently amended): A relay, comprising:

- a) a pass-through circuit;
- b) an attenuator circuit;
- c) means, unattached from the pass-through and attenuator circuits, for alternately closing and allowing current flow through the pass-through and attenuator circuits; and
- d) means for grounding the pass-through circuit while the attenuator circuit is closed.

Claims 15 – 17 (cancelled)

Claim 18 (original): A method for reducing signal noise in a relay comprising pass-through and attenuator circuits which are alternately closed by operation of an armature assembly of the relay, the method comprising:

- a) providing the relay with at least one biased conductor, wherein the at least one biased conductor is biased not to couple the pass-through circuit to ground; and
- a) moving the armature assembly, wherein:
  - i) movement of the armature assembly to a first position applies pressure to the at least one biased conductor, thereby coupling the pass-through circuit to ground via the at least one biased conductor; and
  - ii) movement of the armature assembly to a second position removes pressure from the at least one biased conductor, thereby breaking a connection between the pass-through circuit and ground.

Claim 19 (currently amended): A method as in claim [[1]]18, wherein the at least one biased conductor is only one biased conductor.

**Amendments to the Drawings:**

The attached sheet of drawings includes changes to Fig. 5. This sheet, which includes Fig. 5 only, replaces the original sheet including Fig. 5 only. In Fig. 5, the element previously labeled as 100 has been amended to be labeled as 500. In Fig. 5, the element previously labeled as 102 has been amended to be labeled as 511.

The attached sheet of drawings includes changes to Fig. 6. This sheet, which includes Fig. 4, Fig. 6 and Fig.7, replaces the original sheet including Fig. 4, Fig. 6 and Fig.7. In Fig. 6, the element previously labeled as 102 has been amended to be labeled as 511.

Attachment:            Replacement Sheets  
                             Annotated Sheets Showing Changes